

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/039600 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 33/00**,  
A61P 43/00

(21) International Application Number:  
PCT/EP2004/011504

(22) International Filing Date: 13 October 2004 (13.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03 024 201.0 21 October 2003 (21.10.2003) EP

(71) Applicant (*for all designated States except US*): AGA AB  
[SE/SE]; S-181 81 Lidingö (SE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): PETZELT, Chris-  
tian, Peter [DE/DE]; Bohnstedtstrasse 28A, 12309 Berlin  
(DE). KOX, Wolfgang, Johannes [DE/DE]; Krottnaur-  
erstr. 43, 14129 Berlin (DE).

(74) Agent: SCHÜSSLER, Andrea; Huber & Schüssler, Trud-  
eringer Str. 246, 81825 München (DE).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

WO 2005/039600 A2

(54) Title: USE OF XENON FOR THE PREVENTION OF PROGRAMMED CELL DEATH

(57) Abstract: Described is the use of xenon for preventing or reducing cellular death, preferably aberrant apoptosis. Preferred embodiments relate to the use of xenon for preventing (a) cellular damage for tissue and organs to be transplanted, (b) apoptotic cell death after eye laser surgery, and (c) for protecting endothelial cells of the intestine in sepsis.